Assignment 2

DSA0156-Object oriented programming C++ Gaming

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1. C++ Program to Find All Roots of a Quadratic Equation

2. C++ Program to Calculate Sum of Natural Numbers

```
Odd or even.cpp Vowel.cpp Vowel.cpp Largest of three numbers.cpp Roots of q.equation.cpp Sur
    #include <iostream>
                                                              Enter a positive integer: 10
Sum = 55
    using namespace std;
 4 □ int main() {
                                                              Process exited after 2.513 seconds with return value \theta
          int n, sum = 0;
                                                              Press any key to continue . . .
 6
          cout << "Enter a positive integer: ";</pre>
 7
 8
 9
          for (int i = 1; i \le n; ++i) {
10白
11
               sum += i;
12
13
          cout << "Sum = " << sum;
14
15
          return 0;
```

3.C++ Program to Check Leap Year

```
C:\Users\Kevin Allen\Music\C × + ~
Odd or even.cpp | Vowel.cpp | Vowel.cpp | Largest of three numbers.cpp | Roots of q.equation.cpp | Sum of natural numbers.cpp | Leap year
#include <iostream>
                                                                                        Enter a year: 2004
2004 is a leap year.
 2 using namespace std;
                                                                                        Process exited after 3.224 seconds with ret
 4 □ int main() {
                                                                                        Press any key to continue . . .
       int year;
cout << "Enter a year: ";</pre>
 5
 6
 7
        cin >> year;
       if ((year % 4 == 0 && year % 100 != 0) || year % 400 == 0) {
 8 🖨
          cout << year << " is a leap year.";</pre>
9
10
11 🖨
       else {
          cout << year << " is not a leap year.";</pre>
12
13
14
        return 0;
```